**M. A. R. 57 (Rule 116)** No. E 536214

Measurement Book

Serial No. 1st and final Bill

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency..... Executive Engineer, KRIDL, Bangalore.

Date of commencement of work..... D.o. Recording 2 04-01-2024

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Name of Work : Improvements to Roads and drains and Construction of culverts at Harihalya and other Areas in Ward No.06, Byatarayanapura Sub-Division. | | | | | | |
| | Estimated Cost : Rs. 100.00 Lakhs. | | | | | | |
| | JOB.NO : 006.20-000163. | | | | | | |
| | Work order No : EE/BTD/BBMP/AWO/191/2019.20. | | | | | | Dt. 16.01.2020 |

Modified Estimate Amounted date - 16.12.2020

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## MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1) | Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking of pieces not exceeding 0.12 $m^3$ in volume and stacks piling at designated locations and disposal of dismantled materials stacks neatly dressed and unserviceable materials separately completely as per specifications and directions of Engineer-in-charge of work. | | | | | | |
| | | | Qty vide E-Bill. # no. (1) | | | | |
| | | | p.no (1) = | 304.90 $m^3$ | @ 952.94/$m^3$ | Rs. | 290551.00 |

M. A. R. 57 (Rule 116) No. E 536215
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 2) | Earth work Excavation by manual means in ordinary soil, involving an average horizontal throw upto 2 m and an average lift upto 0.300 m, Excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods etc complete as per specifications and directions of Engineer-in-charge of work. | | | | | | |
| | | | Qty vide E-Bill- # no. (2) | | | | |
| | | | p.no (2) = | 1148.5 $m^3$ | @ 137.80/$m^3$ | Rs. | 158380.00 |

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## MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 3) | Providing and laying plain cement concrete of mix 1:3:6, with cpc @ 20 kgs, with crushed 40 mm and down size graded granite metal Coarse aggregate @ 0.89 m³ and fine aggregate @ 0.46 m³ in foundation mechanically mixed, placed in final and compacted by vibrating including curing for 14 days including cost of all material, labour charges for mixing, scaffolding and centering etc complete as per specifications and directions of Engineer in-charge of work. | | | | | | |
| | | qty as per | E-Bill | at no - (3) | | | 16,65,662.00 |
| | | | p.no - (1) | | | m³ @ 542.90/m³ | |

M. A. R. 57 (Rule 116)
Measurement Book

No. E 536216

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 4) | Providing and constructing granite/trap) basalt size stone masonry in basement with CM 1:6, Edges of stones chisel dressed in courses not less than 15 cm high bond stones at 2 m apart in each course including cost of materials, labour, curing etc complete as per specifications and directions of Engineer in-charge of the work | | | | | | |
| | | qty as per | E-Bill | p.no - (2) | at no (5) | | |
| | | 1 | 44.80 | m³ @ 5811.98 | /m³ | Rs | 260353.00 |

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# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 5) | plain/Reinforced cement concrete M-20 with OPC cement 320 kgs with 20mm and down size graded granite metal Coarse aggregates @ 0.69 m³ and fine aggregates @ 0.46 m³ Superplasticiser @ 3 lits confirming to IS 9103-1999 Re-admixed-2008, in open found" complete as per drawing and Technical specifications Cmt-II, with batching plant transit mixer and concrete etc complete as per specifications and directions of Engineer-in-charge of the Work. | | | | | | |
| | a) qty upto 12.5 cft. | qty vide R.Bill # no. 5 p.no. 2 | | | | | |
| | b) qty above 12.5 cft | | = 24.30 | | | | |
| | | | = 1.26 @ 5548.42/m³ | | | Rs | 1,25,107.00 |
| | | | | | | | 6487.00 |

M. A. R. 57 (Rule 116) No. E 536217
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 6) | Providing flush pointing to coursed stone masonry with cement mortar 1:3, 20mm deep after raking joints to depth of 20mm including curing etc complete as per specifications and directions of Engineer's in-charge of the work. | | | | | | |
| | | qty vide R.Bill # no. 6 p.no. 2 | | | | | |
| | | 54.00 | | sqmtr. @ 149.46/m² | | Rs | 8071.00 |

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## MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 7) | Providing and laying plain reinforced cement concrete fins side drains using M.20 nominal mix concrete with 20mm and down size granite metal coarse aggregate at 0.69 cu.m and fine aggregate at 0.42 cu.m machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, all labour, all machinery, curing etc, complete Excluding cost of steel as per MORTH specification no 1500, 1700, 2200 including cost of materials, labour, all etc complete as per specifications and directions of Engineer-in-Charge. | | | | | | |
| | | | | | | qty vide E-Bill No. 7 | R |
| | (a) qty upto 125 sqm. | | | | | | |
| | (b) qty above 125 sqm | | | | | P.No (4) 20.57 43 E 7070.20/43 | 14,24,716.00 |
| | | | | | | 9.96 E 7070.20/43 | 70,419.00 |

M. A. R. 57 (Rule 116) No. E 536218
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| (8) | Providing qms. steel reinforcement for RCC Work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining member wherever necessary complete as per design, cost of materials labour, all complete as per specifications, MORTH specifications no. 1600 and 2200 - do - qms bars Fe 500 etc complete as per specifications and directions of Engineer-in-Charge. | | | | | | |

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# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Charge of Work. | | | | | | |
| | (a) upto 125% qty | Qty | vide E-Bill | No. | 8 pots | | |
| | (b) above 125% — | = | 13.30 | @ 72326.98/- | | Rs | 9,61,949.00 |
| | | = | 0.19 | tonne @ 72326.98/Ton. | | | 13,742.00 |
| 9) | Providing and fixing RCC precast cover slab of 100 mm thick for drain in CC 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, Light charges, Curing and Concrete finished surfaces on both sides etc complete and as per drawing and as directions of Engineer-in-Charge of work | | | | | | |
| | | Qty | vide | E-Bill | p.no. (1) | No. (9) | |
| | (a) qty upto 125% | = | 610.50 | m² @ 2337.00/m² | | Rs | 14,26,739.00 |
| | (b) qty above 125% | = | 168.96 | m² @ 2337.00/- | | Rs | 3,94,860.00 |

M. A. R. 57 (Rule 116) No. E

Measurement Book

536219

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 10) | Providing and fixing RCC precast cover slab of 200 mm thick made out of CC 1:2:4 and jelly 20mm and down size With steel reinforcement, including form Work, light charges curing and concrete finished surfaces on both sides etc Complete and as per drawing and as direction of Engineer-in-charge of work | | | | | | |
| | | Qty | vide | E-Bill. | No. (13) | p.no (2) | |
| | | = | 67.50 | m² @ | 5418.00/m² | Rs | 3,65,715.00 |

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# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 11) | cement concrete pavement, Construction un-reinforced plain cement concrete pavement, thickness as per design over a prepared sub-base with 43 grade cement or any other type as per clause 1051.2.2 M-20/M-30 at 384 kgs per cum, coarse and fine aggregate conforming IS-383, Maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved steel side forms (steel channel) are complete as per specifications and directions of Engineer-in-charge of works | | | | | | |

**M. A. R. 57 (Rule 116)** **No. E**
Measurement Book 536220

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | qty vide E-Bill p. no. (7) | | | | 11 no. (11) | |
| | | = 182.27 m³ @ | | 5210.96 /m² | | Rs. | 949,802.00 |
| 12) | Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including costs, generator, hiring of machinery, screed vibratory power floater blade and discs complete as per specifications and directions of Engineer-in-charge of the work. | | | | | | |

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## MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | Qty vide | | ₹-Bill | 27 no. | 12 | |
| | | P. no - (7) = | 215.10 m³ | | @ 72.08/m³ | Rs | 87584.00 |
| 13) | Earthwork Excavation for foundation of buildings, Water supply, sanitary lines and electrical conduits either in pits or in trenches 1.50m and above in width, in hard rock, not exceeding 1.50m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated rock clean from edges of excavations with lead upto 50m after breaking clods etc complete as per specifications and directions of Engineer-in- | | | | | | |

**M. A. R. 57 (Rule 116)** No. E
Measurement Book 536221

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Charge of work | | | | | | |
| | | Qty vide | | ₹. Bill | 27 no. | 13 | |
| | | P. no = (7), | 234.53 m³ | | @ 475.00/m³ | Rs | 1,11,622.00 |
| 14) | Procuring and installing at site of work 63mm (0.062) PVC pipes of 6kgs/cm² including cutting pipes of specials and labour, including lowering into trenches, laying true to line level and perfect linking at joints leak proofing including testing of approved | | | | | | |

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## MEASUREMENT BOOK

| Date | Full description, etc. of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | type with all labour and light charges, leading charges including encasing the pipe around in a depth not less than 150 mm using gravel or selected earth available from the excavation etc complete. | | | | | | |
| | | | | | | | |
| | | | | | | | |
| |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | Sub - Total R | ~~8,54,~~ | |
| | | | | | | 85,49,159.00 | |
| | | | | Add 12% Applicable GST | | 10,25,899.00 | |
| | | | | Add 3% ICRISAT charges | | 2,56,475.00 | |
| | | | | Add 1% Labour. Cess | | 85,492.00 | |
| | | | | | Grand R. | 99,17,025-00 | |

Certificate

(1) Certified that the contractor has work done satisfactorily.

(2) the contractor has removed the debris from site

(3) there is no any dept materials issued to contractor

4/01/2021

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ ಉಪ ವಿಭಾಗ

ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

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**M. A. R. 57 (Rule 116)** **No. E** 536223

Measurement Book

Serial No. .....

Name of work ..... From Saraipalya colony main Road To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

← Rcc drain

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | 2 | W 137 | 2.64 | 3.35 | Saraipalya colony 5 cc. Road | |
| | | | W 1160 | | | 102 mts | |
| | | | W 1825 | | | | |
| | | | 34 mt 727 | | | | |
| | | | W 172 | | | | |
| | | | 2.85 | | | | |

4/01/2021

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ ಉಪ ವಿಭಾಗ

ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

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# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | 41825 | 41174 | | | |
| | | | | | | only covering slab to be Existing drain | |
| | | | 41825 | 1495 | | | |

4/01/2024

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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